

FIGURE 1A

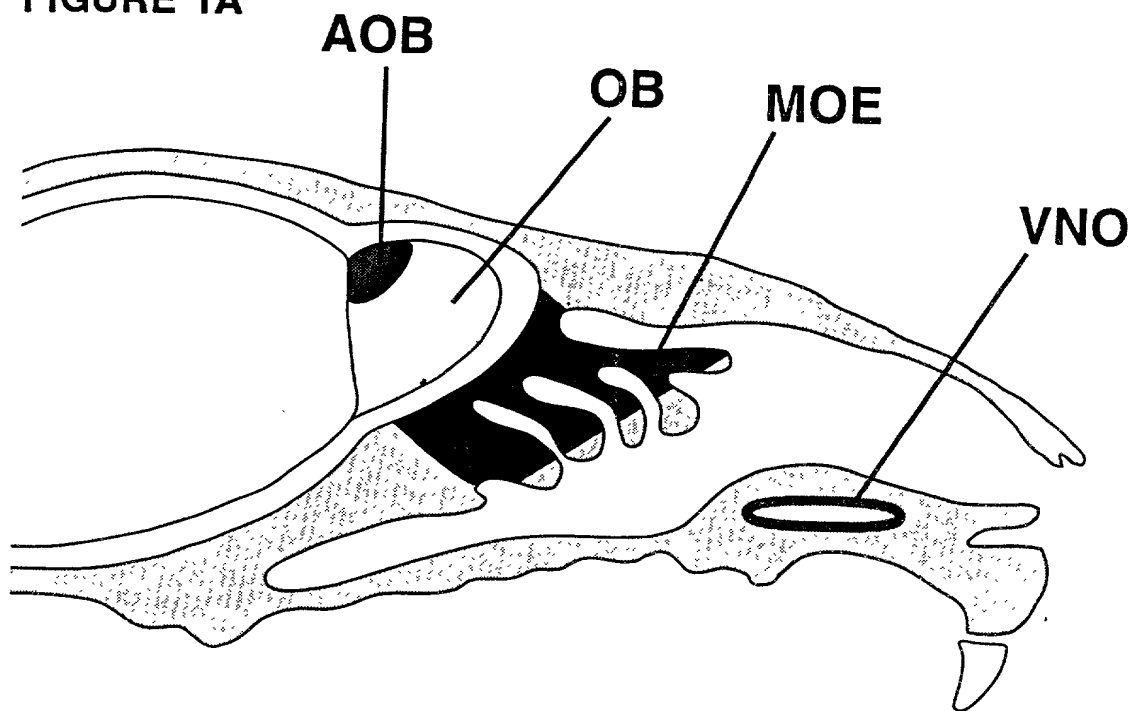


FIGURE 1B

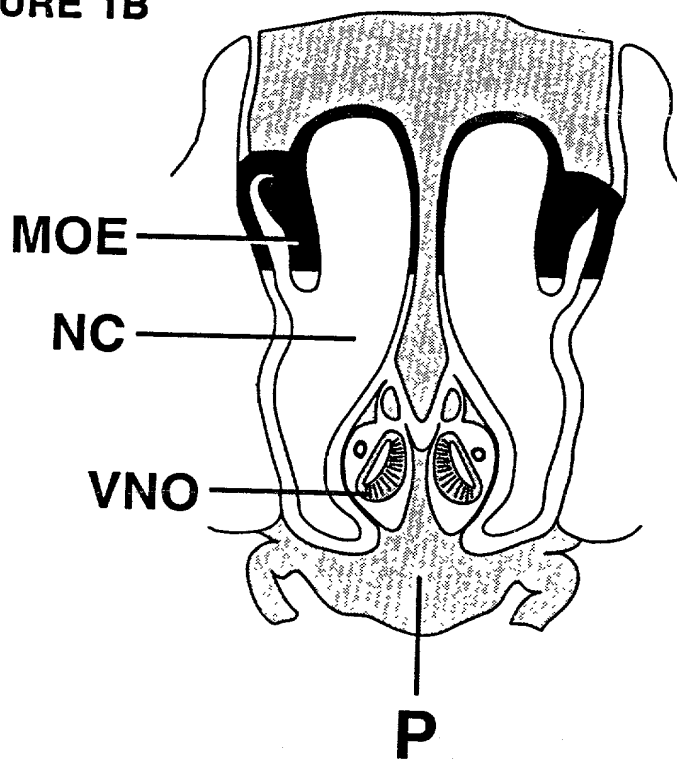


FIGURE 2A

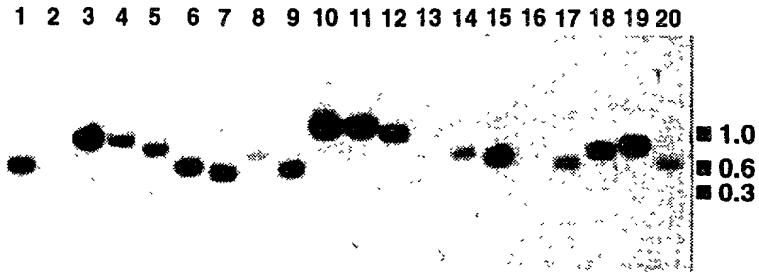


FIGURE 2B

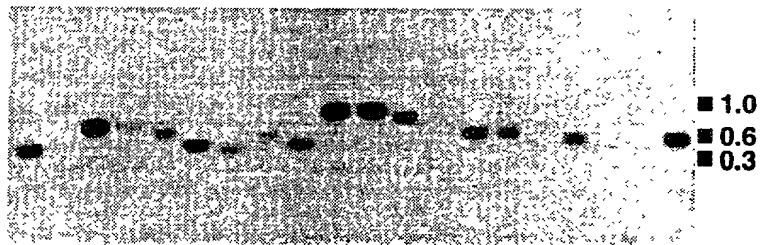
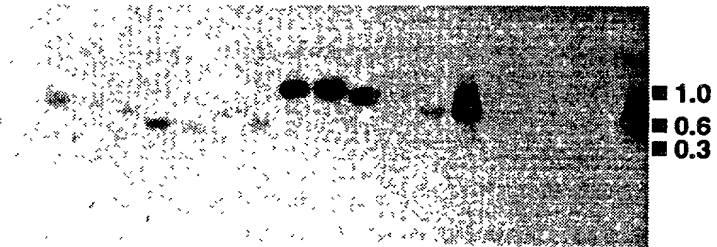


FIGURE 2C



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FIGURE 3A

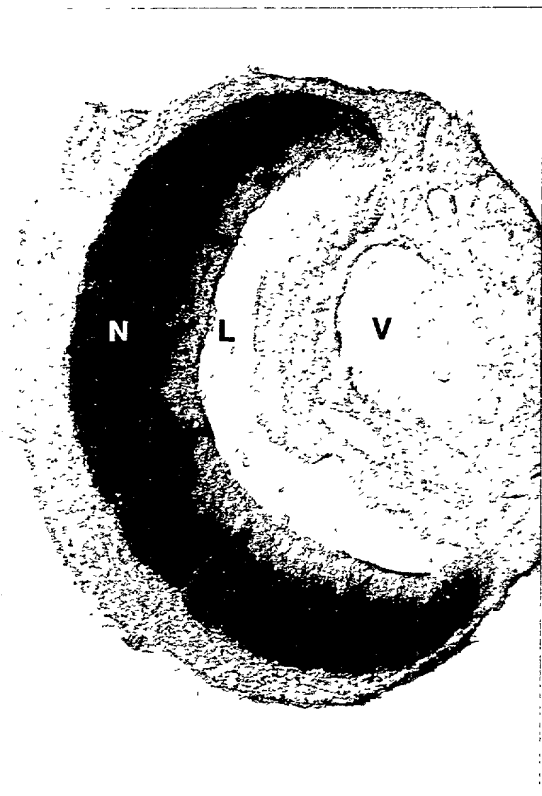


FIGURE 3B



FIGURE 3C

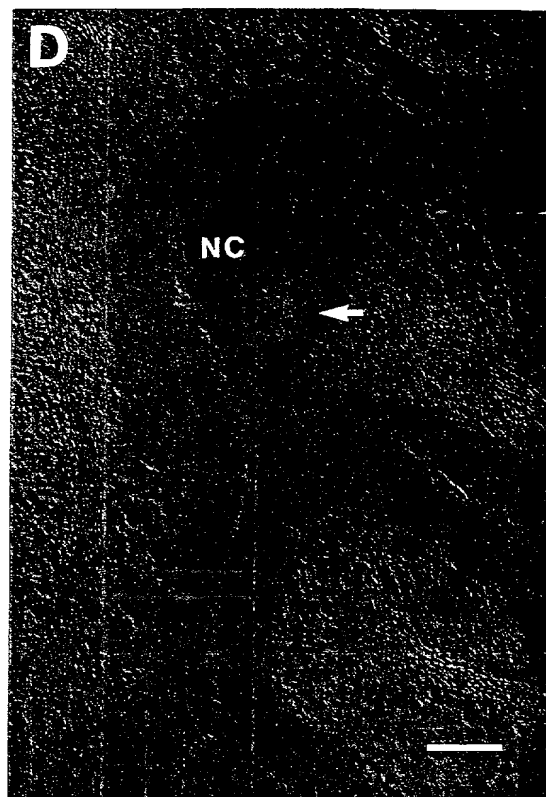


FIGURE 3D

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II

IV

✓

vii

VN1	LMSLFVLM	SVFDS	IVCS	SR	TM	Y	L	N	D	P	T	S	Y	Q	L	F	M	V	H	I	I	Y	A	T	V	S	P	E	V	F	I	V	T	E	K	H	I	V	N	S	L	R	S	M	C	V	K	V	H	E	C	L	N	I	P	315					
VN2	LRSLFGL	MSIF	DS	I	AS	CS	SR	TM	Y	L	N	D	P	T	S	Y	Q	L	L	V	V	H	I	I	Y	A	T	V	S	P	E	V	F	M	I	T	E	K	H	I	V	N	Y	L	K	S	M	Y	V	R	V	L	N	V	311						
VN3	LMTFFVL	MSII	FD	S	I	V	CS	SR	TM	Y	L	N	D	P	T	S	Y	Q	I	F	G	V	D	I	Y	A	T	V	S	P	E	V	F	M	S	T	E	K	H	I	V	N	F	L	K	S	M	C	V	R	V	K	N	V	311						
VN4	LMSFFVL	Y	I	L	E	N	V	V	F	S	R	M	F	K	D	G	S	T	F	C	V	Q	I	I	V	S	H	S	Y	A	T	V	S	S	E	V	F	I	F	T	E	K	R	M	T	K	I	L	R	S	V	G	A	R	I	N	N	310			
VN5	LMSFFVL	Y	I	L	E	N	V	V	F	S	R	M	T	F	K	D	G	S	M	F	C	V	Q	I	I	V	S	H	S	Y	A	T	I	S	P	E	V	F	I	C	T	E	K	R	I	K	L	W	G	S	S	R	I	V	S	I	277				
VN6	LMSFFVL	M	Y	C	D	T	I	S	A	S	R	M	H	N	G	E	P	I	H	S	I	Q	M	M	V	S	N	S	Y	A	T	L	S	P	L	L	I	V	T	E	N	R	I	S	R	F	L	K	S	L	L	G	R	T	V	D	A	310			
VN7	LMSFFVL	M	Y	C	D	T	I	S	A	S	R	M	T	F	K	D	G	S	M	F	C	V	Q	I	I	V	S	H	S	Y	A	T	I	S	P	E	V	E	V	F	E	S	E	I	Q	I	I	K	E	F	R	S	M	C	G	R	I	V	N	T	311

II

r. EP3B 59 SKRKKSFLLCIGWLAULTDVGQLLTSPVILVYLSQRRWEQL---DPSGRLCFFGLTMTVFGLSLLVASAMA 121
VN2 43 GQRSLTDEPIGLSLINLMLTIMACIATDIFSCRRWDIICKSLLYLYRTRFRGLSLSTTCLSVLQAAILSL 105

III

ASAMA 121
AIILS 105

FIGURE 4C

III

VN6
HG25
KCKSLAHLHRLRLRGLSLCATCLLSIFQAITLSPRSSCLA
NISPVIYRYRLMRGLSISTITCLLSVLQAINLTPRSSRLA

IV

VN6
HG25
KSTQHSLCSLLVLMALFYMSCTGTHYSFTIVADYNFSSRSLIFVTIESCIILPMDYITRDLEFFILGIFRDVSFIFGLMALSSGYMVALLC 215
RSSHHKPRCFLLWVFEHISISGSFLVSTLPSKNVAQNSVTFVTQSCSAGPLSCFLGQTIFTLMTFQDVSL-QLMAPFSGYMWILLC

V

VI

VN6
HG25
RHRKGAQHLHRTSLSPKASPEQRATRTILLMSFFVLMYCLDCTISASR 263
RHNRRQSQHLHSINLSPKAPPDKRAIQSILLVVSFFVFMCLFPFAALTLL

FIGURE 5A FIGURE 5B FIGURE 5C FIGURE 5D FIGURE 5E FIGURE 5F FIGURE 5G FIGURE 5H FIGURE 5I

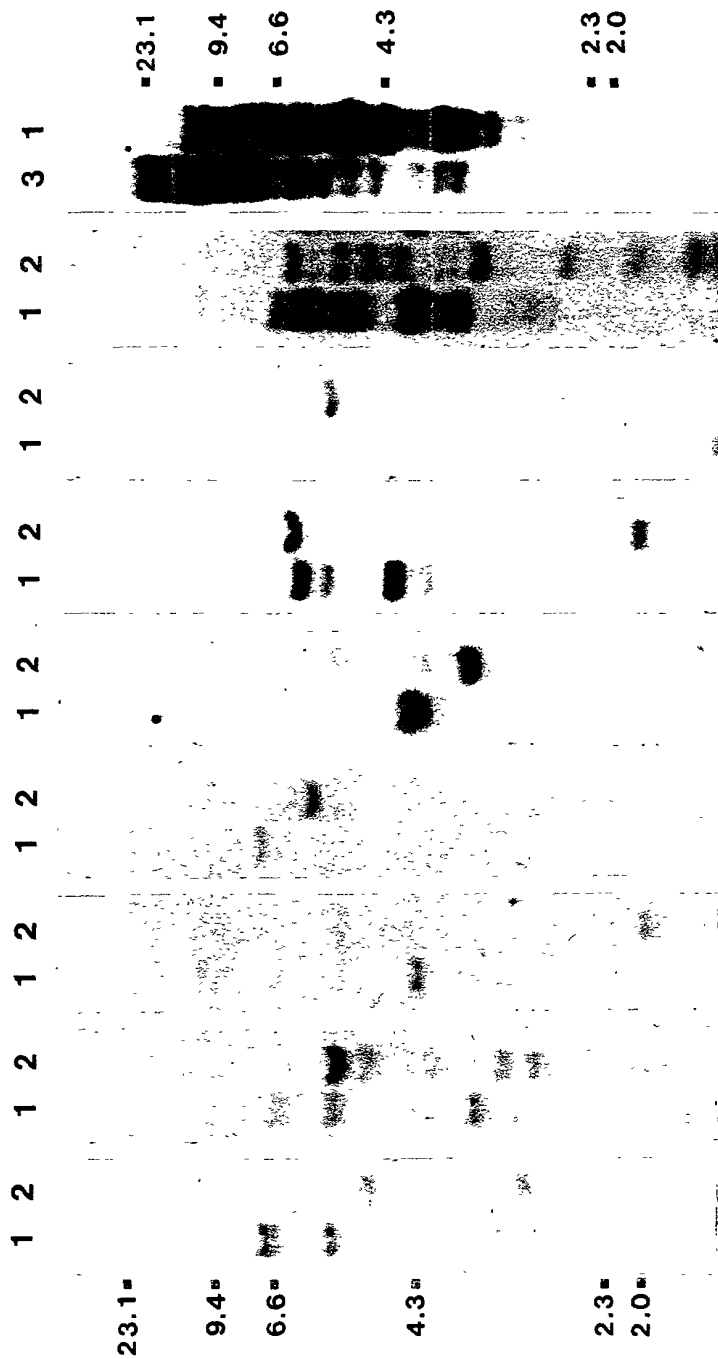


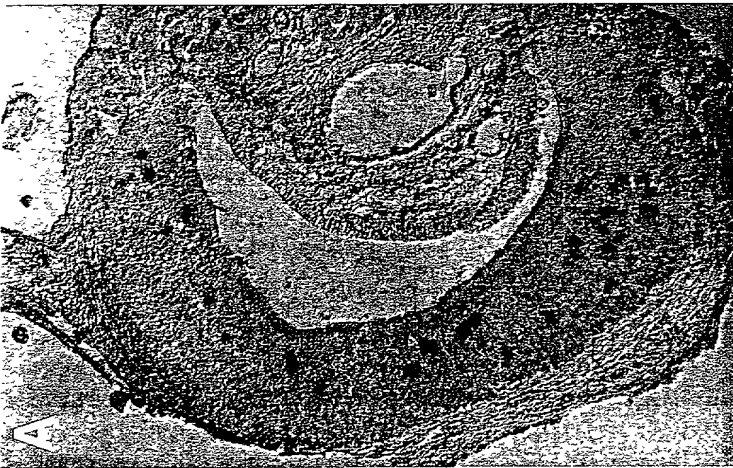
FIGURE 6C



FIGURE 6B



FIGURE 6A



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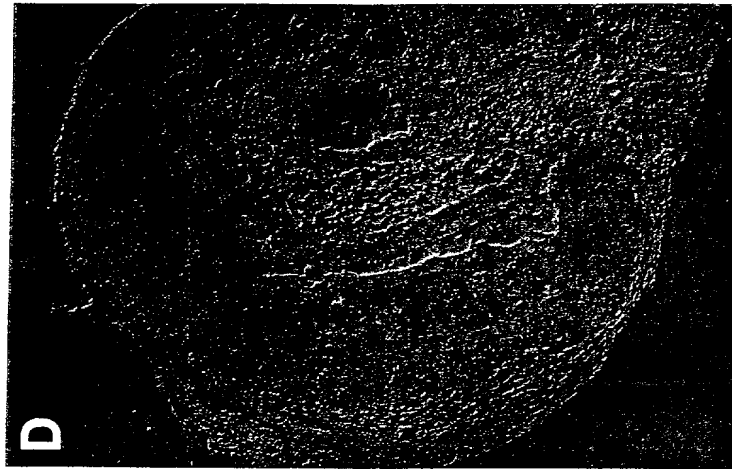


FIGURE 6D

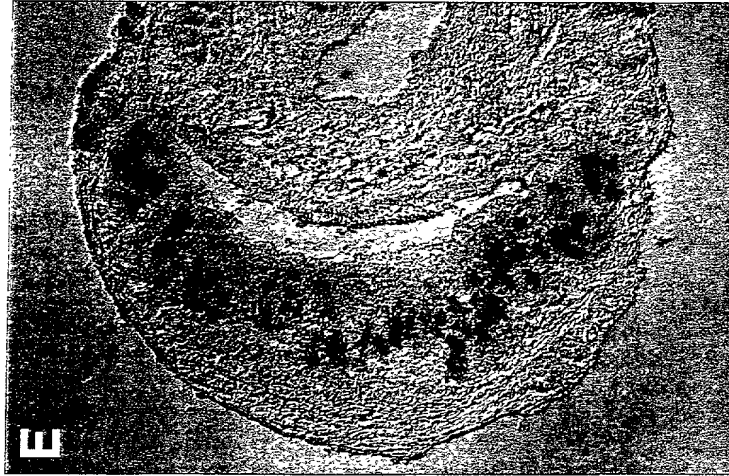


FIGURE 6E

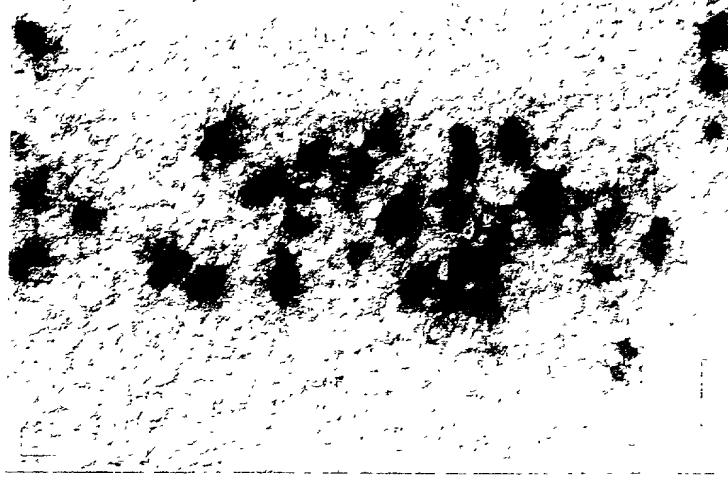


FIGURE 6F

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FIGURE 7



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FIGURE 8

TTTCGGCACGAGTTCACCTGCCCTCGAATTTCAATTTGAGTAAGTGACCAGC
AATGGAGTACAGAATCAGAAGATGGTTGGATCCCAGGCAGGCTGTGGGAGG
AGGAACTCTGGAAGTGCATGAGGAGTTTGAGCACCTGCCATGGAGTAGCTG
ATCTCTGAGGACCCCTCANCACAGGTCTGTGTTCTACATCAAGTGCAATTT
TTTCCTAGGATATTCATTTCCGTAAGTCCTGAAATTACTTAATTTTATAG
GAGTTCTCATATATGATGAATAAGAACAGCAGACTCTACACTGATTCTAA
CATAAGGAATACCTTTTTTCGCTGAAATTGGCATTGGAGTCTCAGCCAATAG
CCTCCTACTTCTCTTCAACATCTTCAAGTTAATTTGTGGGCAGAGGTCCAGA
CTCACTGACCTGCCCATTTGGTCTCTTGTCCCTAATCAACTTACTTATGCTACT
GATGACGGCATTTCATAGCCACAGACACTTTTATTTCTTGGAGAGGGTGGGA
TGACATCATATGTAAATCCCTTCTCTACCTGTACAGAACTTTTAGAGGTCTC
TCTCTTTGTACCAGCTGCCTGTTGAGTGTCTGCAGGCCATCATCCTCAGTCCC
AGAAGCTCCTGTTTAGCAAAGTTCAAACATAAGCCTTCCCATCACATCTCCT
GTGCCATTCTTTCTCTGAGTGTCTCTACATGTTTATTAGCAGTCACCTCTTA
GTATCCATCATTGCCACCCCAAATTTGACCACGAATGACTTTATTCATGTTA
CTCAGTGGTGCTCTATTCTACCCATGAGTTACCTCATGCAAAGCATGTTTTCT
ACACTGCTGGCCATCAGGGATGTCTTTCTTATTAGTCTCATGGTCTGTCAAC
ATGGTACATGGTGGCTCTCTTGTGTAGGCACAGGAAACAGACCCGGCATCTT
CAGGGTACCAGCCTTTCCCCAAAAGCATCCCCAGAACAAGGGGCCACCCGTT
CCATCCTGATGCTCATGAGCTTATTTGTTCTGATGTCTGTCTTTGACAGCATT
GTCTGCAGCTCAAGAACTATGTATCTGAATGATCCAATATCTTATTCTTAT
CAACTATTTATGGTGCACATCTATGCCACAGTAAGCCCTTTTGTGTTTATTG
TCACTGAAAAACATATAGTTAACTCTTTGAGGTCCATGTGTGTGAAGGTGC
ATGAATGTTTGAATATTCCTTGATAGCAAGCTCCATTAAGAGGAGCCAAT
GTAAGCATCAGAAGTGTCAATCATGGCGTGCTATGTGCTTTGGCATATGTG
AAATATGAAGTTGTTTTTCTGTAAATGATTTACTTTAACTGACGAGAT
GATGAACGTAACAGAAGATTAAACCACATCCCCCTTTGATAT

FIGURE 9

GTGGATCCCCCGGGCTGCAGGAATTCGGCACGAGCCGTGATTAAGGGACTTTG
AACTTTTCAAGGGATTTGGAGTTTTATGAAGAATTTGAAGATTTACAGAG
TTTACAGGAATGGAGCTGACCAGCCACTATGACATGCCTTATATCTCCAAG
AGCATAAATATAAGGCATGGCATGAGAGGACCAGCAGCCACTGTTCTCAT
ATATGATGAATAAGAACAGCAGAGTCCACACTGATTCTACCATAAGGAA
TACCTTCTCCACTGAAATTGGCATTGGAATCTTAGCCAACAGTTTCCTACTT
CTCTTCCACATCTTCAAGTTTATTCGTGGACAGAGGTCCAGACTCACTGACCT
GCCCATTGGTCTCTTGTCCTAATCCACCTACTGATGCTACTGATGGGGGCAT
TCATAGCCATAGACATTTTTATTTCTTGGAGGGGATGGGATGACATCATAT
GTAAATTCCTTGTCTACTTGTACAGAAGTTTTAGAGGTCTCTCTCTTTGTAC
CACCTGCATGTTGAGTGTCTGCAGGCCATCACCTCAGCCCCAGAAGCTCCTG
TTTAGCAAAGTTCAAACATAAGTCTCCCCATCACGTCTCCTGTGCCATTATT
TCGCTGAGCATCCTCTACATGTTCAATTAGCAGTCACCTCTTAGTATCCATCA
ATGCCACCCCCAATTTGACCACGAACAACCTTTATGCAAGTTACTCAGTCCTG
CTACATTATACCCTTGAGTTACCTCATGCAAAGCATGTTTTCTACACTTCTG
GCCATCAGAGATATCTCTTATTAGTCTCATGGTCCTCTCGACTTGTTACAT
GGAGGTTCTCTTGTGTAGGCACAGGAATCAGATCCAGCATCTTCAAGGGACC
AACCTTTCCCCAAAAGCATCTCCAGAACAAAGGGCCACACAGACCATCCTG
ATGCTCATGACCTTCTTTGTCCTAATGTCCATTTTCGACAGCATTGTCTCCTG
TTCAAGAACTATGTATCTGAATGATCCAACATCTTACTATATTCAAATAT
TTGTAGTGGACATCTATGCCACAGTCAGCCCTTTTGTGTTTATGAGCACTGG
AAAACATATAGTTAACTTTTTGAAGTCCATGTGTGTGAGGGTGAAGAATG
TTTGAATATTCATTAATGGACAAGATCCTTTAAGAGGAGCCAATGTAGTC
ATCAGAACTGTCAGTCATGGTGTGCTGTCTATGTGCTTTGGTAAATGTGAA
TCATGAAGTTGTTTTTCTGGTAAAATGATTTACTTTAACCAACTCATGATT
GTAAACATGTAACAGGAGATTAAACAATATCCCCTTCGGAAA

FIGURE 10

AATTCGGCACGAGCAAAGGCAGGGAAGATGCTCCACTGGGATGTCATGTCTC
TATGCTCCACAGTGGAAAAGTTGTACATTGTACAAACACTAAAATTACG
AATTGCTCACAGGCACTAAAAGCTTCCTTAATCCTGTGCAGGATCTCCTCAG
GTACAGAGTCCTCCTGATACGTCTATCTGGTCAGAGGAAAGAGCTGATCAG
TCATTAACAGAGCTGATTTGGTCCCTCCAAGGTCACATGACAAGGACTGTA
TGAGAAAACCAGCAGTGACATGTCTATAGAGATCATTCTGTGCCACACCCA
GCTCCATGTTTGGTTTGTGGTATTTGCTTCCTATCCACATACAATGAATAAA
GACAACACACTCCATGTTGACACAATCATGAAAATCACTATGTTCTCTGA
AGTGAGTGTTGGCATCTTAGCTAACAGTATCCTGTTTTTTGGTCACCTGTGC
ATGCTCCTTGGAGAGAACAAGCCTAAGCCCATTCTCTCTACATTGCATCCT
TGTCCTTAACACAATAATGCTGCTTATAACTATGGGACTCATAGCTGCTG
ACATGTTTATTTCTCAGGGGATATGGGATTCTACCTCATGCCAGTCCCTTAT
CTATTTGCACAGGCTTTCGAGGGGTTTTACCCTTAGTGCTGCCTGTCTGCTGA
ATGTCCTTTTGGATGATCACTCTCAGTTCTAAAAAATCCTGTTTAACAAAGT
TTAAACATAACTCTCCCCATCACATCTCAGGTGCCTTTCTTCTCCTCTGTGTT
CTCTACATGTGTTTTAGCAGTCACCTTATTTTATCGATTATTGCTACCCCTA
ACTTGACCTCAGATAATTTTATGTATGTTACTAAGTCCTGTTTCAATTTCTACC
CATGTGTTACTCCAGAACAAGCATGTTTTCCACAACAATTGCTGTCAGGGA
AGCCTTTTTTATCGGTCTCATGGCCCTGTCCAGTGGGTACCTGGTGGCTTTCCT
CTGGAGACACAGGAAGCAGGCCCCAGCATCTTCACAGCACCGGCCCTTCTTCA
AAGTCATCTCCAGAGCAAAGGGCCACCGAGACCATCCTGCTGCTTATGAGTT
TCTTTGTGGTTCTCTACATTTTGGAAAATGTTGTCTTCTACTCAAGGATGAA
GTTCAAGGATGGGTCAACATTCTACTGTGTCCAAATTATTGTGTCCCATAGC
TATGCCACTGTCAGCTCTTTTGTGTTTATTTTCACTGAAAAGCGTATGACTA
AGATATTGAGGTCAGTGTGTGCCAGAATAATAAATAAATTGATTATTCAGT
GATGGGTATTGCCCTTAGAATAAACCATTACGTTGTCATCAGAGGTTTGG
GTCATGACATAATTGGGACATTCTCTGTCTTAAATTGATAAATGAAATTT
TCTTTTTTCTGTTAAAACCTGTTTCCTTTGTGTGTGGATGCCCAATATATGA
AAGAAAACATAACACCATGTCTCTTACATATCCAACCAAAAAAAAAAA
AAA

FIGURE 11

TTTTTCCCACCTCTTCATGCTCTTTGAAAAGAACAGATCTAAGCCCATTGA
TCTCTACATTGCTTTCTTATCCTTAACCCAACTAATGCTGCTTATAACTATT
GGACTTATAGCTGCAGACATGTTTATGTCTCGGGGGAGATGGGATTCTACCA
CATGCCAGTCCCTTATCTATTTGGACAGGCTTTTGAGGGGTTTTACCCTTTGT
GCTACCTGTCTGCTGAATGTCCTTTGGACCATCACTCTCAGTCCTAGAAGCTC
CTGTTTAAACAACATTTAAACATAAATCTCCCCATCACATCTCAGGTGCCTT
TCTTTTCTTCTGTGTTCTCTATATATCTTTTGGCAGTCACCTCTTTTTATCAA
CAATTGCTACCCCCAATTTGACTTCAGATAATTTTATGTATGTTACTAAAT
CCTGTTCAATTTCTACCCATGAGTTACTCCAGAACAAGCATGTTTTCCACACC
AATGGCCATCAGGGAAGCCCTTCTTATTGGTCTCATTGGCCTGTCCAGTGGGT
ACATGGTTGCTTTCCTATGGAGACACAAGAATCAGGCCCCGGCATCTTCACAG
CACCAGCCTTTCTTCAAAAGTGTCCCCAGAGCAAAGGGCCACCAGGACCATC
ATGATTCTCATGAGCTTCTTTGTGGTTCTCTACATTTTGGAAAATGTTGTCT
TCTACTCTAGGATGACATTCAAGGATGGGTCAATGTTCTACTGTGTCCAAA
TTATTGTGTCCCATAGCTATGCCACCATCAGCCCTTTTGTGTTTATTTGCACA
GAAAAGCGTATAATTAACTTTGGGGGTCAATGTCTAGCAGAATAGTAA
GTATTTGATTACTCAGTGATGGATATGGTCCCTTAATATAAACCAATATG
TTGTCATAATAACTATGGATCATGACATATTGGGGACATTCTGTGTCTTAA
ATTTATAAAAAAAATTTTCTTTTTTTTGTGTTTAATCTGTTTCCCTTGTGTG
TGGATGATAAGTATATAAAGGGAAATTAAACAGCGTGTCCCCTCAGATAT
CCAAAAAAAAAAAAAAAAAAAA

FIGURE 12

GGGCTGCAGGAATTCGGCACGAGTCAGAGTCCTTCCCTGCTATGTGTATCTGG
AGCCAGCGACTCTTCTATGGAGAGCAGCTGTGCAGGCAGGTGGTGGAGCGGA
AGAAGGCGTGCTGCTGTGACATCATCAAGATGCTGCCTAGCCCTGCGTCGCTG
CTCTTCTGAGGAAGCAGGAGACTGACCCCTGTGACAATGACTTGATGAGTCA
CTCTGTTGTCTACTTACCCTAGTTCTTTGTCCCATACAATGAGGAGAATCAG
CACACTGTATGGAGTTGTTGACAAGCAAGCTATATTTTTCTCTGAAGTAGT
CATCGGGATCTCATTCAACAGTATCCTCTTCCTCTTCCACATCTTTCAGTTCC
TTCTTGAGCGTAGGCTCCGGATCACTGACCTGATCATCAGTCTCTTGGCCCTC
ATCCACCTTGGGATGCTAACAGTCATGGGATTCAGAGCTGTTGATATTTTTG
CATCTCAGAATGTGTGGAATGACATCAAATGCAAATCCCTTGCCCACTTAC
ACAGACTTTTGAGGGGCTCTCTCTTTGTGCTACCTGTCTGCTGAGTATCTTCC
AGGCCATCACCCCTTAGCCCCAGAAGCTCCTGTTTAGCAAAGTTCAAATATA
AATCCACACAGCACAGCCTGTGTTCCCTTCTTGTGCTCTGGGCCCTTCTACATGT
CCTGTGGTACTCACTACTCCTTCACCATCGTTGCTGACTACAACCTCTCTTCAC
GCAGTCTCATATTTGTCACTGAATCCTGCATTATTTTACCCATGGATTACAT
CACCAGGGATTTATTTTTTCATATTGGGGATATTTTCGGGATGTGTCCTTCATA
GGTCTCATGGCCCTCTCCAGCGGGTACATGGTGGCCCTCTTGTGCAGACACAGG
AAACAGGCCCAGCATCTTCACAGGACCAGCCTTTCTCCAAAAGCATCCCCAG
AGCAAAGGGCCACCAGGACCATCCTGTTGCTCATGAGCTTCTTTGTGTTGAT
GTACTGCTTGGACTGCACCATATCCGCCTCCAGACTTATGCACAACGGTGAA
CCAATCCACCACAGTATTCAGATGATGGTCTCCAATAGCTATGCCACCCCTCA
GCCCTTTGCTGTTAATTGTTACTGAAAATCGAATTAGTAGGTTTTTTGAAGT
CCTTGCTAGGAAGGACAGTAGATGCTTAAGTATTGAGGGGAGGCAGGCCCA
CTAAAGGAGCCAATATGCTAGCTACTGAATAATGAATCCTGGCCTAGTCCT
CATGCAATCCTGAACAAATTAATACATGACTCATGCTTCGTTAAACCTGCT
TCTTTTGAAATGTGTATTACCAACACCTGTAGATATTTGAGTCAAATTTCT
TCATGTGTATTTCTTCTCAGTGTCAGTAGGGGACATCTGTGACACTTTCACA
GATTAGGGTAACTTGTGCACTTATCAATAAGCTAAAGTGTACAGCACATT
TACTAAGCCAATTATCTCAACAGTTTGTTTTCTACCCAATTAAATATGTA
AATGTTACCACCAAAAAAAAAAAAAAAAAAAAA

FIGURE 13

TTGGGGTAAAACGGCTCGATGACTTCCACATGTTTTGCCATGGCAGAATCTG
CTCCATGCGGGACAAGAAAATCTCTTTTCTGGTCTGACGGNGCTTACTGCTG
AATTCAGTGTTCGGCGAAGGTAAGTTGATGACTCATGATGAACCCTGTTCTA
TGGCTCCAGATGACAAACATGATCTCATATCAGGGACTTGTTTCGCACCTTCC
CTAACAGTATCCTGTTTTTTTGGCCACCTCTGCATGTTCTTTGAAGAGAACAG
GTCTAAGCCCATTGATCTGTGCATTGCTTTCTTATCCTTAACCCAACTAATG
CTGCTTGTAACATATGGGACTCATAGCTGCAGACATGTTTATGGCTCAGGGGA
TATGGGATATTACCACATGCAGGTCCCTTATCTATTTTCACAGACTTTTGAG,
GGGTTTCAACCTTTGTGCTGCCTGTCTACTGCATATCCTTTGGACCTTCACTCT
CAGTCCTAGAAGCTCCTGTTTAAACAAAGTTTAAACATAAATCTCCCCATCA
CATCTCAGGTGCCTATCTTTTCTTCTGTGTTCTCTATATGTCCTTTAGCAGTC
ACCTCTTTGTATTGGTCATTGCTACCTCCAATTTAACCTCAGATCATTTTAT
GTATGTTACTCAGTCCTGCTCACTTCTACCCATGAGTTACTCCAGAACAAGC
ACGTTTTCTTACTGATGGTCACCAGGGAAGTCTTTCTTATCAGTCTCATGGC
CCTGTCCAGTGGGTACATGGTGACTCTCCTATGGAGGCACAAGAAGCAGGCC
CAGCATCTTCACAGCACCAGACTTTCTTCAAAAGCATCCCCACAGCAAAGGG
CCACCAGGACCATCCTGCTGCTTATGACCTTCTTTGTGGTTTTCTACATTTTA
GGCACTGTTATCTTCCACTCAAGGACTAAGTTCAAGGATGGGTCAATCTTCT
ACTGTGTCCAAATTATTGTGTCCCATAGCTATGCCACTATCAGCCCATTTGT
GTTTGTTTTTTCTGAAAAGCGCATAATCAAGTTTTTTAGATCAATGTGTGG
CAGAATAGTAAATACTTGATTATTCAGTATGAGTATGGGTCATGAATAT
AGTCTAGTAAATTGTGATCAGAGTTATGGCTCATGACATATTA AAAACAT
TCTCTAATTTAAGTTTAAACATATAAAAATTATCTTATTTCTCTTAAATGTG
TTTACTTTGTGTGTATTA AAAAGTATGTAAAAGATAATTAATCCCCAAAT
ACACCTTTTTTTCAAATTA AAAAAA

FIGURE 14

1	AAACATAAGT	CCAGTTATCT	ACAGGTACAG	GTGATGAGA	GGCCTCTCCA	TTTCCACCAC
61	CTGCCGTGTG	AGTGTCCTCC	AGGCCATCAA	CCTCACCCCA	AGGAGCTCCC	GTGTGGCAAT
121	GTTCAGAGAT	CCTCACATCA	CAAACCGCGT	TGCTTTCTCT	TGCTGTGGGT	CTTCCACATA
181	TCCATTAGTG	GAAAGCTTCT	AGTCTCCACT	CTTCCCTCCA	AAAATGTTGC	CTCAAATAGT
241	GTTACATTTG	TCACTCAATC	CTGCTCTGCT	GGGCCCTTGA	GTGCTTCTCT	TGGGCAGACA
301	ATTTTCACAC	TGATGACATT	TCAGGATGTC	TCCTTGCAGC	TCATGGCCCC	CTTCAGTGGA
361	TACATGGTGA	TTCTCTTTTG	CAGGCATAAC	AGGCAGTCTC	AGCATCTTCA	TAGTATCAAC
421	CTTTCGCCAA	AAGCACCCCC	AGATAAAAGG	GCCATCCAGA	GCAATCTTTT	GCTCGTGAGT
481	TTCTTTTGTT	TCATGTGCCCT	TTTCCCAATT	GCTGCCTTAA	CACTTCTGTC	